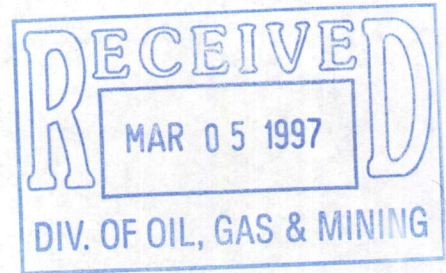


JUMBO MINING COMPANY
6305 FERN SPRING COVE
AUSTIN, TX 78730
PH: 512-346-4537
FAX 512-346-3188



February 19, 1997

Mark Novak
Division of Water Quality
Department of Environmental Quality
288 North 1460 West
P.O. Box 114870
Salt Lake City, Utah 84114-4570

RE: Response to your letter dated January 24, 1997

Dear Mr. Novak:

We have received your letter dated January 24, 1997 and are submitting additional analytical results from heap runoff samples collected on January 3, 1997 in a joint sampling effort with DOGM. The results of the sampling are additional proof that the heaps at the Drum Mine have been rinsed to industry standards. The samples were collected after the rain had stopped, hence, there was no dilution from direct rainfall onto the ditch or other sources. Sample 197H2 was collected from runoff flowing directly out of Heap 2 and the other two samples were collected from pipes at the preg pond. The analytical results are given below as well as a comparison chart of heap runoff.

Your letter stated that previous samples were not collected according to proper sampling procedures. In our telephone conversation, you mentioned the only procedure not followed was that the water collected for metals wasn't filtered and could lead to erroneous results. By not screening, any sediment in the sample might contain metals and would show up in analysis as total metals and not dissolved metals. This is evidenced by our recent sampling of Heap 2 (sample 197H2) which contain a lot of sediment and the analytical results showed the lead content to be 0.08 ppm. After talking with American West Analytical, the chemist mentioned that the lead was in the sediment and the clear solution contained no dissolved lead. If any future sample contains sediment, the sample will be filtered in the field or by the analytical lab. Since the results from previous sampling were all below drinking standards for metals, filtering the water in the field would only have given lower content for metals.

I have been in contact with Sheri Wysong of the BLM in order to coordinate future sampling. A map showing future sampling sites, directions of pad drainage and types of ditch liners has already been mailed to you.

Our consultant, Evert Lawton, will be contacting you to discuss what is required in our ground water application.

Sincerely:

A handwritten signature in black ink, appearing to read "Dave Hartshorn". The signature is fluid and cursive, with the first name "Dave" being more prominent than the last name "Hartshorn".

Dave Hartshorn

cc: Sheri Wysong, BLM
Wayne Hedberg, DOGM



INORGANIC ANALYSIS REPORT

AMERICAN
WEST
ANALYTICAL
LABORATORIES

Client: Jumbo Mining
Date Sampled: January 3, 1997
Lab Sample ID.: 28148
Set Description: Three Water Samples

Contact: Ed King
Date Received: January 6, 1997
Received By: Elona Hayward

Analysis Requested:

Cyanide (WAD)

Method Ref. Number:

335.3

Analytical Results

Units = mg/L

<u>Field Sample ID</u>	<u>Lab Sample ID</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
Drum Mine/197 H1 J	28148-01	0.005	0.12
Drum Mine/197 H2 J	28148-02	0.005	0.013
Drum Mine/197 H4/5 J	28148-03	0.005	0.023

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Released by: _____

Laboratory Supervisor

Report Date 1/16/97

1 of 1



INORGANIC ANALYSIS REPORT

Client: Jumbo Mining
Date Sampled: January 03, 1997

Contact: Ed King
Date Received: January 06, 1997

AMERICAN
WEST
ANALYTICAL
LABORATORIES

Field Sample ID:
DRUM MINE
197 H1 J

Lab Sample ID:
L28148-1

Analytical Results

Units = mg/L

TOTAL METALS	Method Used:	Reporting Limit:	Amount Detected:
Arsenic	7060	0.005	0.021
Cadmium	6010	0.004	<0.004
Chromium	6010	0.01	0.01
Lead	6010	0.05	<0.05
Mercury	7470	0.001	<0.001

463 West 3600 South
Salt Lake City, Utah
84115

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Released By: _____

Laboratory Supervisor

Report Date: January 16, 1997

1 of 1



INORGANIC ANALYSIS REPORT

Client: Jumbo Mining
Date Sampled: January 03, 1997

Contact: Ed King
Date Received: January 06, 1997

AMERICAN
WEST
ANALYTICAL
LABORATORIES

Field Sample ID:
DRUM MINE
197 H1 J

Lab Sample ID:
L28148-1

Analytical Results

Units = mg/L

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Salt Lake City, Utah
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OTHER CHEMISTRIES	Method Used:	Reporting Limit:	Amount Detected:
Chloride	4500 CLB	0.5	1900.
Cyanide (TOTAL)	335.3	0.005	0.5
Nitrite/Nitrate	353.2	0.01	75.
pH	150.1	0.1	8.3
TDS	160.1	1.0	4500.

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Report Date: January 16, 1997

1 of 1



INORGANIC ANALYSIS REPORT

Client: Jumbo Mining
Date Sampled: January 03, 1997

Contact: Ed King
Date Received: January 06, 1997

AMERICAN
WEST
ANALYTICAL
LABORATORIES

Field Sample ID:
DRUM MINE
197 H2 J

Lab Sample ID:
L28148-2

Analytical Results

Units = mg/L

TOTAL METALS	<u>Method Used:</u>	<u>Reporting Limit:</u>	<u>Amount Detected:</u>
Arsenic	7060	0.005	0.048
Cadmium	6010	0.004	<0.004
Chromium	6010	0.01	<0.01
Lead	6010	0.05	0.08
Mercury	7470	0.001	<0.001

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Laboratory Supervisor

Report Date: January 16, 1997

1 of 1



INORGANIC ANALYSIS REPORT

AMERICAN
WEST
ANALYTICAL
LABORATORIES

Client: Jumbo Mining
Date Sampled: January 03, 1997

Contact: Ed King
Date Received: January 06, 1997

Field Sample ID:
DRUM MINE
197 H2 J

Lab Sample ID:
L28148-2

Analytical Results

Units = mg/L

463 West 3600 South
Salt Lake City, Utah
84115

OTHER CHEMISTRIES	Method Used:	Reporting Limit:	Amount Detected:
Chloride	4500 CLB	0.5	520.
Cyanide (TOTAL)	335.3	0.005	0.067
Nitrite/Nitrate	353.2	0.01	18.
pH	150.1	0.1	8.5
TDS	160.1	1.0	1700.

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Released By:

Laboratory Supervisor

Report Date: January 16, 1997

1 of 1



INORGANIC ANALYSIS REPORT

Client: Jumbo Mining
Date Sampled: January 03, 1997

Contact: Ed King
Date Received: January 06, 1997

AMERICAN
WEST
ANALYTICAL
LABORATORIES

Field Sample ID:
DRUM MINE
197 H4/5 J

Lab Sample ID:
L28148-3

Analytical Results

Units = mg/L

TOTAL METALS	Method Used:	Reporting Limit:	Amount Detected:
Arsenic	7060	0.005	0.032
Cadmium	6010	0.004	<0.004
Chromium	6010	0.01	0.01
Lead	6010	0.05	<0.05
Mercury	7470	0.001	<0.001

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Released By: _____

Laboratory Supervisor

Report Date: January 16, 1997

1 of 1



INORGANIC ANALYSIS REPORT

Client: Jumbo Mining
Date Sampled: January 03, 1997

Contact: Ed King
Date Received: January 06, 1997

AMERICAN
WEST
ANALYTICAL
LABORATORIES

Field Sample ID:
DRUM MINE
197 H4/5 J

Lab Sample ID:
L28148-3

Analytical Results

Units = mg/L

OTHER CHEMISTRIES	Method Used:	Reporting Limit:	Amount Detected:
Chloride	4500 CLB	0.5	640.
Cyanide (TOTAL)	335.3	0.005	0.077
Nitrite/Nitrate	353.2	0.01	22.
pH	150.1	0.1	8.4
TDS	160.1	1.0	1900.

163 West 3600 South
Salt Lake City, Utah
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Released By: BAH

Laboratory Supervisor

Report Date: January 16, 1997

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